

Title (en)  
Core structure of integral heat-exchanger

Title (de)  
Struktur eines kombinierten Wärmetauscherkerns

Title (fr)  
Structure de bloc d'échangeur de chaleur combiné

Publication  
**EP 1167909 A2 20020102 (EN)**

Application  
**EP 01102906 A 20010207**

Priority  
• JP 2000030583 A 20000208  
• JP 2000300713 A 20000929

Abstract (en)  
A core structure (CS) of an integral heat-exchanger comprises at least two first heat exchanger tubes (11) which extend in parallel with each other; at least two second heat exchanger tubes (13) which extend in parallel with each other, the second heat exchanger tubes (13) juxtaposed with the first heat exchanger tubes (11); and a corrugated fin (15) including a corrugated first part interposed between the first heat exchanger tubes (11), a corrugated second part interposed between the second heat exchanger tubes (13) and a flat connection part (15j) arranged between the corrugated first and second parts. The corrugated first part of the fin (15) is formed with a plurality of first louvers (15c) each extending substantially between the two first heat exchanger tubes (11). The corrugated second part of the fin is formed with a plurality of second louvers (15h) each extending substantially between the two second heat exchanger tubes (13). The innermost one of the second louvers is positioned away from the innermost end of the corrugated second part of the fin by a given length. The flat connection part is formed with a third louver (15e) in the vicinity of the innermost one of the first louvers. The third louver (15e) is constructed to obstruct a heat transfer in the fin (15). <IMAGE>

IPC 1-7  
**F28D 1/04**; **F28F 1/12**

IPC 8 full level  
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Citation (applicant)  
• JP H10231724 A 19980902 - DENSO CORP  
• JP H11294984 A 19991029 - ZEXEL CORP

Cited by  
EP1241424A3; US7117933B2

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